

VIRGINIA ELECTRIC AND POWER COMPANY
RICHMOND, VIRGINIA 23261

August 30, 2013

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555

Serial No. 13-499
NAPS: MPW
Docket No. 50-339
License No. NPF-7

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY (DOMINION)
NORTH ANNA POWER STATION UNIT 2
POST ACCIDENT MONITORING (PAM) REPORT

On July 23, 2013, with Unit 2 in Mode 1, the open indication lights for the Phase B containment isolation valves (CIV) 2-CC-TV-204A ("A" RCP CC Supply Outside Isolation Valve) and 2-CC-TV-204B ("B" RCP CC Supply Outside Isolation Valve) were determined to be inoperable. These Regulatory Guide 1.97 CIVs are located outside of containment in the component cooling (CC) water supply line to the "A" and "B" reactor coolant pumps (RCP). The cause of the inoperable open lights are failed bulbs. Technical Specification (TS) 3.3.3 Condition A requires restoration of the CIV indication to operable within thirty days. If CIV indication is not returned to service within thirty days, a Post Accident Monitoring Report is required in accordance with TS 5.6.6. This letter provides the required report and includes our plan and schedule for restoring the CIV indications to service.

This is a valve position open indication operability issue only. The replacement of the bulbs with the unit on-line can lead to grounding of the circuit due to possible separation of the bulb glass from its base. This could possibly result in the associated trip valve closing which would be detrimental to Unit 2 operation. Therefore, due to the inherent risks involved with performing maintenance on-line, repairs are scheduled to be performed at the first entry into a unit condition of sufficient duration to allow the repair. The risks associated with performing repairs on-line include maintenance in a sensitive area (i.e., Control Room Safeguards Equipment Panel) and by-passing the air supply to prevent the CIVs from inadvertently closing, which may require manually tripping the reactor and shutting down the running "A" and "B" RCPs.

Continued operation with these valve open indications inoperable is permitted because there are several levels of alternate indication. The Plant Computer System (PCS) provides an alternate reliable indication (PCS computer point S2CC001D, "A" RCP Supply Isolation" and S2CC003D, "B" RCP Supply Isolation") to determine valve positions. Flow indicators will also indicate zero flow for various "A" and "B" RCP parameters when 2-CC-TV-204A and 204B are closed. In addition, the closed light indication is operable.

ADD
NER

The CIVs cycled properly during their last valve position indication tests completed on May 4, 2013. If a containment depressurization actuation (CDA) were to occur, the CIV would receive a signal to close.

This report has been reviewed and approved by the Facility Safety Review Committee.

If you have any questions or require additional information, please contact Mr. Page A. Kemp at (540) 894-2295.

Sincerely,

A handwritten signature in black ink, appearing to read "G. T. Bischof". The signature is fluid and cursive, with a large initial "G" and a distinct "B" at the end.

G. T. Bischof
Site Vice President

Commitments made in this letter: Replacement of the open indication lights for 2-CC-TV-204A and 204B during the next entry into a unit condition of sufficient duration to allow the repair.

cc: U.S. Nuclear Regulatory Commission
Region II
Marquis One Tower
245 Peachtree Center Ave., NE, Suite 1200
Atlanta, Georgia 30303-1257

NRC Senior Resident Inspector
North Anna Power Station

Dr. V. Sreenivas
NRC Project Manager
U. S. Nuclear Regulatory Commission
One White Flint North
Mail Stop 08 G-9A
11555 Rockville Pike
Rockville, Maryland 20852-2738

K. R. Cotton Gross
NRC Project Manager
U. S. Nuclear Regulatory Commission
One White Flint North
Mail Stop 08 G-9A
11555 Rockville Pike
Rockville, Maryland 20852-2738